AMENDMENTS TO THE CLAIMS

Docket No.: 10002929-3

1. (Currently Amended) Circuitry for providing external access to signals that are internal to an integrated circuit, said circuitry comprising:

a network comprising a plurality of multiplexers physically distributed throughout the integrated circuit, each of said multiplexers having its inputs coupled to a nearby set of nodes within the integrated circuit; and

a trigger event generator receiving a first N bits of sampled data from said network, said trigger event generator including a definable mask and selectively performing a boolean operation on said sampled data based on said mask to provide a trigger event; and

a FIFO storage array that stores at least a portion of the sampled data.

- 2. (Original) The circuitry according to claim 1 wherein said trigger event generator further comprises a switch for selectively providing, as said trigger event, one of (i) a result of said boolean operation on said sampled data, (ii) a performance counter event signal, and (iii) an externally applied trigger signal.
- 3. (Original) The circuitry according to claim 1 further comprising a counter providing an intermediate trigger in response to a predetermined number of said trigger events.
- 4. (Original) The circuitry according to claim 3 further comprising a trigger delay providing a sample command a predetermined number of cycles following said intermediate trigger.
- 5. (Original) The circuitry according to claim 4 wherein said predetermined number of cycles represent respective operating cycles of the integrated circuit.
- 6. (Original) The circuitry according to claim 4 wherein said predetermined number of cycles represent respective machine clock cycles.
- 7. (Original) The circuitry according to claim 4 further comprising a programmable register storing a value corresponding to said predetermined number of cycles.

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Application No. 10/670,620 Docket No.: 10002929-3

8. (Original) The circuitry according to claim 7 wherein said programmable register selectively increments said value corresponding to said predetermined number of cycles by a predetermined number of said cycles.

- 9. (Previously Presented) The circuitry according to claim 4 further comprising a sampling circuit responsive to said sample command to identify target data.
- 10. (Original) The circuitry according to claim 1 further comprising a trigger delay providing a sample command a predetermined number of cycles following said trigger event.
- 11. (Original) The circuitry according to claim 10 further comprising a sampling circuit responsive to said sample command to identify target data.
- 12. (Original) The circuitry according to claim 1 further comprising a sampling circuit responsive to said trigger event to identify target data.
- 13. (Original) The circuitry according to claim 12 wherein said target data comprises said first N bits of sampled data supplied by said network.
- 14. (Original) The circuitry according to claim 12 wherein said target data consists of a second N bits of sampled data supplied by said network.
- 15. (Original) The circuitry according to claim 12 wherein said sampling circuit includes a memory storing said target data.
- 16. (Original) The circuitry according to claim 12 wherein said sampling circuit includes switching circuitry configured to selectively provide a predetermined portion of said target data.
- 17. (Currently Amended) The circuitry according to claim 16 Circuitry for providing external access to signals that are internal to an integrated circuit, said circuitry comprising:

a network comprising a plurality of multiplexers physically distributed throughout the integrated circuit, each of said multiplexers having its inputs coupled to a nearby set of nodes within the integrated circuit;

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a trigger event generator receiving a first N bits of sampled data from said network, said trigger event generator including a definable mask and selectively performing a boolean operation on said sampled data based on said mask to provide a trigger event; and

a sampling circuit responsive to said trigger event to identify target data, wherein said sampling circuit includes switching circuitry configured to selectively provide a predetermined portion of said target data, wherein said predetermined portion of said target data is N/M bits wide where N/M is a positive integer.

- 18. (Previously Presented) The circuitry according to claim 17 wherein said sampling circuit includes multiplexing circuitry configured to combine M of said portions of said target data into a data unit N bits wide.
- 19. (Currently Amended) The circuitry according to claim 12 wherein said sampling circuit includes <u>a</u> the FIFO storage array.
- 20. (Currently Amended) The circuitry according to claim 19 Circuitry for providing external access to signals that are internal to an integrated circuit, said circuitry comprising:

a network comprising a plurality of multiplexers physically distributed throughout the integrated circuit, each of said multiplexers having its inputs coupled to a nearby set of nodes within the integrated circuit;

a trigger event generator receiving a first N bits of sampled data from said network, said trigger event generator including a definable mask and selectively performing a boolean operation on said sampled data based on said mask to provide a trigger event; and

a sampling circuit responsive to said trigger event to identify target data, wherein said sampling circuit includes a FIFO storage array, and wherein said FIFO storage array is N/M bits wide where N/M is a positive integer.

21. (Canceled)